

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A vaporization chamber assembly utilized in ~~in~~ a power plant utilizing a process to remove components harmful to the atmosphere from a stream of flue gas, wherein said process includes the injection of a vaporized aqueous mixture in the stream of flue gas by way of a distribution grid, the improvement said vaporization chamber assembly comprising:

~~a vaporization chamber pre-heated to a vaporization temperature in order to vaporize said aqueous mixture prior to the injection thereof into said stream of flue gas, said vaporization chamber being pre-heated by an independent heat source~~ having an inlet for receiving an aqueous mixture, a heat source for heating said vaporization chamber to a temperature sufficient to vaporize said aqueous mixture, and an outlet for providing said vaporized aqueous mixture to said distribution grid.

Claim 2 (Current Amended): The ~~power plant~~ vaporization chamber assembly according to claim 1 wherein said ~~independent~~ heat source is a band heater.

Claim 3 (Current Amended): The ~~power plant~~ vaporization chamber assembly according to claim 1 wherein said ~~independent~~ heat source is a blanket heater

Claim 4 (Current Amended): The ~~power plant~~ vaporization chamber assembly according to claim 1 wherein said ~~independent~~ heat source is an electric heat tracing apparatus.

Claim 5 (Current Amended): The ~~power plant~~ vaporization chamber assembly according to claim 1 wherein said ~~independent~~ heat source is an steam heat tracing apparatus.

Claim 6 (Currently Amended): The ~~power plant~~ vaporization chamber assembly according to claim 1 wherein said aqueous mixture comprises ammonia in the range of less than 29% by volume and the balance being water.

Claim 7 (Canceled)

Claim 8 (Currently Amended): The vaporization chamber assembly according to claim 12 ~~In the power plant of claim 7~~, said air assembly comprising a diffusing air fan in communication with an electric heater.

Claims 9-11 (Cancelled)

Claim 12 (New): The vaporization chamber assembly according to claim 1 further comprising:

an air assembly in communication with said vaporization chamber for pressurizing said aqueous mixture in a vaporized state.